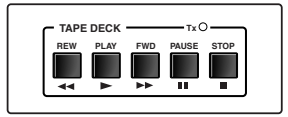
Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION

User's Manual



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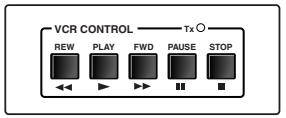

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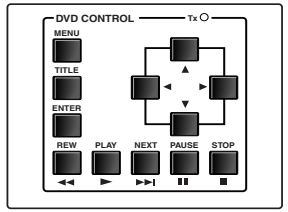

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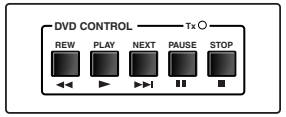
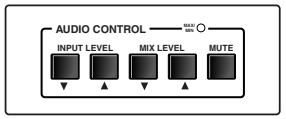


IRCM-DVD



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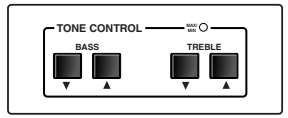

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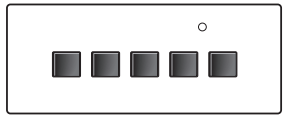

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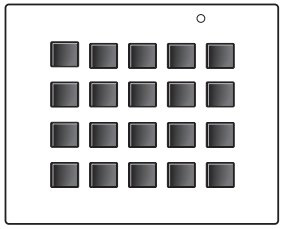

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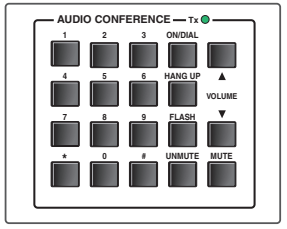

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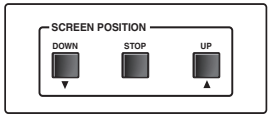
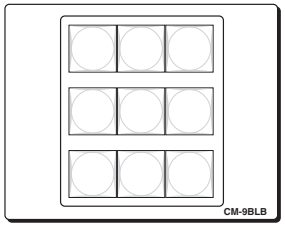


RCM-SC Level



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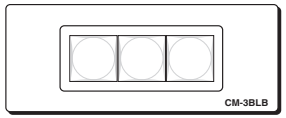

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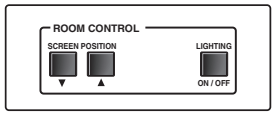

RCM-SC LT Level

Control Modules

Control Accessories

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Rev. D
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www.extron.com

Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
USA
714.491.1500
Fax 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands
+31.33.453.4040
Fax +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Building
Singapore 368363
+65.6383.4400
Fax +65.6383.4664

Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082 Japan
+81.3.3511.7655
Fax +81.3.3511.7656

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Precautions

Safety Instructions • English

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.

This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment.

Retain Instructions • The safety instructions should be kept for future reference.

Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français

Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).

Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

Lire les instructions• Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.

Conserver les instructions• Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.

Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.

Eviter les pièces de fixation • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch

Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.

Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits-und Bedienungsanleitungen genau durchlesen und verstehen.

Aufbewahren der Anleitungen • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.

Befolgen der Warnhinweise • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.

Keine Zusatzgeräte • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

Instrucciones de seguridad • Español

Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.

Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

Leer las instrucciones • Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.

Conservar las instrucciones • Conservar las instrucciones de seguridad para futura consulta.

Obedecer las advertencias • Todas las advertencias e instrucciones marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.

Evitar el uso de accesorios • No usar herramientas o accesorios que no sean especificamente recomendados por el fabricante, ya que podrian implicar riesgos.

Warning

Power sources • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

Power disconnection • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).

Power cord protection • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.

Servicing • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Avertissement

Alimentations• Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la désactiver.

Déconnexion de l'alimentation• Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.

Protection du cordon d'alimentation • Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.

Réparation-maintenance • Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.

Fentes et orifices • Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.

Lithium Batterie • Il a danger d'explosion s'll y a remplacment incorrect de la batterie. Remplacer uniquement avec une batterie du meme type ou d'un ype equivalent recommande par le constructeur. Mettre au reut les batteries usagees conformement aux instructions du fabricant.

Vorsicht

Stromquellen • Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdanschluß, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.

Stromunterbrechung • Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stomversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.

Schutz des Netzkabels • Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden können.

Wartung • Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.

Schlitze und Öffnungen • Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.

Litium-Batterie • Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

Alimentación eléctrica • Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearia ni eliminaria.

Desconexión de alimentación eléctrica • Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.

Protección del cables de alimentación • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.

Reparaciones/mantenimiento • Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.

Ranuras y aberturas • Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalientamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.

Batería de litio • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

Precautions

安全须知 • 中文

这个符号提示用户该设备用户手册中有重要的操作和维护说明。

这个符号警告用户该设备机壳内有露的危险电压，有触电危险。

注意

阅读说明书 • 用户使用该设备前必须阅读并理解所有安全和使用说明。

保存说明书 • 用户应保存安全说明书以备将来使用。

遵守警告 • 用户应遵守产品和用户指南上的所有安全和操作说明。

避免追加 • 不要使用该产品厂商没有推荐的工具或追加设备，以避免危险。

警告

电源 • 该设备只能使用产品上标明的电源。 设备必须使用有地线的供电系统供电。 第三条线（地线）是安全设施，不能不用或跳过 。

拔掉电源 • 为安全地从设备拔掉电源，请拔掉所有设备后或桌面电源的电源线，或任何接到市电系统的电源线。

电源线保护 • 妥善布线， 避免被踩踏，或重物挤压。

维护 • 所有维修必须由认证的维修人员进行。 设备内部没有用户可以更换的零件。为避免出现触电危险不要自己试图打开设备盖子维修该设备。

通风孔 • 有些设备机壳上有通风槽或孔，它们是用来防止机内敏感元件过热。 不要用任何东西挡住通风孔。

锂电池 • 不正确的更换电池会有爆炸的危险。必须使用与厂家推荐的相同或相近型号的电池。按照生产厂的建议处理废弃电池。

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Chapter One

Introduction

About this Manual

About the Control Modules

Features

About this Manual

This manual documents four types of control modules: Infrared Control Modules (IRCMs), Audio Control Modules (ACMs), Relay Control Modules (RCMs), and basic Control Modules (CMs). Unless otherwise specified, in this manual Control Modules are referred to as “modules”, “IRCMs”, “ACMs”, "RCMs", " CMs", and “control modules” when instructions apply to more than one model

About the Control Modules

Extron Control Modules are hardwired remote control keypads for use with Extron MediaLink Controllers, System 5 IP series switchers, or any Secondary Control Panel (SCP) model. The logic (RS-232, IR, etc.) for these keypads resides in the MLC or System 5 IP units.

NOTE *Setup and selected command learning must be done via RS-232 or IP, and learned commands are stored in the MLC or System 5 IP. For programming and operation, refer to the MediaLink Control Program or the relevant System 5 IP, SCP, or MediaLink Controllers user’s manuals for details.*

Each control module fits into a double space high or four space high opening (depending on the model) in an Extron Architectural Adapter Plate, interface, or distribution amplifier.

IRCM control modules replicate source device front panel controls (such as on a VCR or DVD player) and uses infrared commands to control those devices. ACM models replicate some MediaLink Switcher front panel controls. RCM models toggle relays within a System 5 IP or MediaLink controller. CM-19AC remotely controls audio conference systems.

Features

Color options — The control modules come in black, white, or RAL9010 for integration into a variety of environments.

System expandability — Up to four control modules can be daisy-chained together in any combination and connected to an MLC to provide basic A/V source and room control from several locations.

Furniture and wall mountability — The control modules can be mounted onto or in furniture or walls if they are installed in optional mounting plates (AAP 102, AAP 104) or in the MLC’s accessory faceplates.

Flexibility — You choose what infrared commands or controls to associate with each button on a control module.

2

Chapter Two

Installation and Operation

UL Requirements

Installation Overview

Front Panel Features and Operation

Setting up the Buttons (IRCM, RCM, and CM Modules Only)

Mounting the Control Module into an AAP Wall Plate or Device Faceplate

CAUTION *Installation and service must be performed by authorized personnel only. These products should be used with UL approved electrical boxes.*

UL Requirements

- . These units are not to be connected to a centralized DC power source or used beyond their rated voltage range.
- These units must be installed in UL listed junction boxes.

NOTE *The UL approved electrical wall box is not included with the control module; the installer is responsible for obtaining and installing the box.*

- These units must be installed in accordance with the National Electrical Code and with local electrical codes.

Installation Overview

For installation and set up, refer to the relevant diagrams and sections in your MLC, System 5 IP or SCP user's manual:

1. Attach the control module to an AAP wall plate or an Extron faceplate.

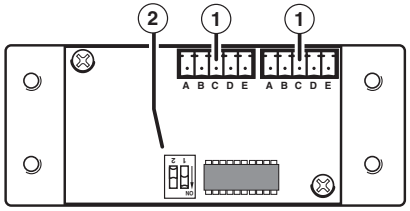


Figure 2-1 — Typical module Rear panel layout

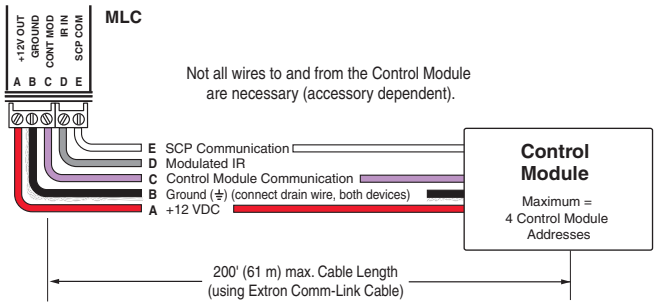
The same type and quantity of rear panel connectors and DIP switches shown above can be found on all models of the control modules.

2. Using the rear panel connectors (①), connect control modules together and to the MLC, System 5 IP or SCP unit (see Figure 2-2). Follow the wiring diagrams in the installation section of the user's manual of your MLC, System 5 IP, or SCP unit.

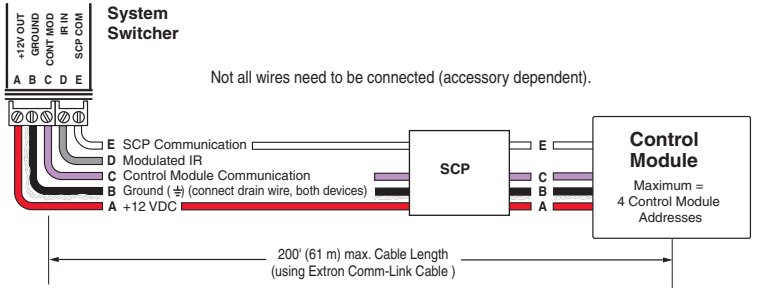
NOTE *Up to a total of four control module addresses in any combination of models can be daisy-chained together and connected.*

NOTE *After connecting the control modules, you must turn the power to the MLC 206 off, then on for the device to recognize the module quantity and types.*

NOTE *Extron recommends that you connect the cable's drain wire to the ground pin at both ends to reduce EMI interference.*


MLC
+12V OUT
GROUND
CONT MOD
IR IN
SCP COM
A B C D E
Not all wires to and from the Control Module are necessary (accessory dependent).
E SCP Communication
D Modulated IR
C Control Module Communication
B Ground (⏚) (connect drain wire, both devices)
A +12 VDC
Control Module
Maximum = 4 Control Module Addresses
200' (61 m) max. Cable Length (using Extron Comm-Link Cable)

MLC and Control Module wiring



System Switcher, SCP and Control Module wiring

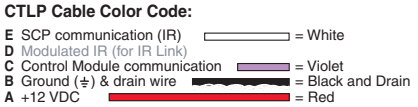

CTLP Cable Color Code:
E SCP communication (IR) = White
D Modulated IR (for IR Link)
C Control Module communication = Violet
B Ground (⏚) & drain wire = Black and Drain
A +12 VDC = Red

Figure 2-2 — Typical Control Module wiring

3. Connect an IR Emitter or IR Broadcaster to the MLC or System 5 IP's IR output port (i.e., projector control port, IR/Serial Port or Display/Source), maximum four emitters (one per module address).

4. Set the DIP switches (②) on each control module's circuit board to identify the address of each module (see illustrations below). Each module must have a unique address. Note the direction of the arrow on the switch.

Address DIP switches can be 4-position or 2-position, but only positions 1 and 2 are used.

1, 2 — Control module address identification

1 and 2 down (off) = address 0, control module **#1**

1 down (off), 2 up (on) = address 2, control module **#3**

1 up (on), 2 down (off) = address 1, control module **#2**

1 up (on), 2 up (on) = address 3, control module **#4**

3, 4 — Not used

Front Panel Features and Operation

IRCM modules

① **Tx (transmit) LED** — This LED lights whenever any control module button, with a control signal associated with it, is pressed.

All IRCM buttons must be set up before use.

② **Basic functions buttons** — These buttons replicate basic VCR, tape, or DVD player controls (e.g., rewind, play, stop, pause, etc.).

③ **DVD setup function buttons** — These buttons replicate DVD player configuration controls (e.g., DVD player's menu, title, enter, and arrow buttons).

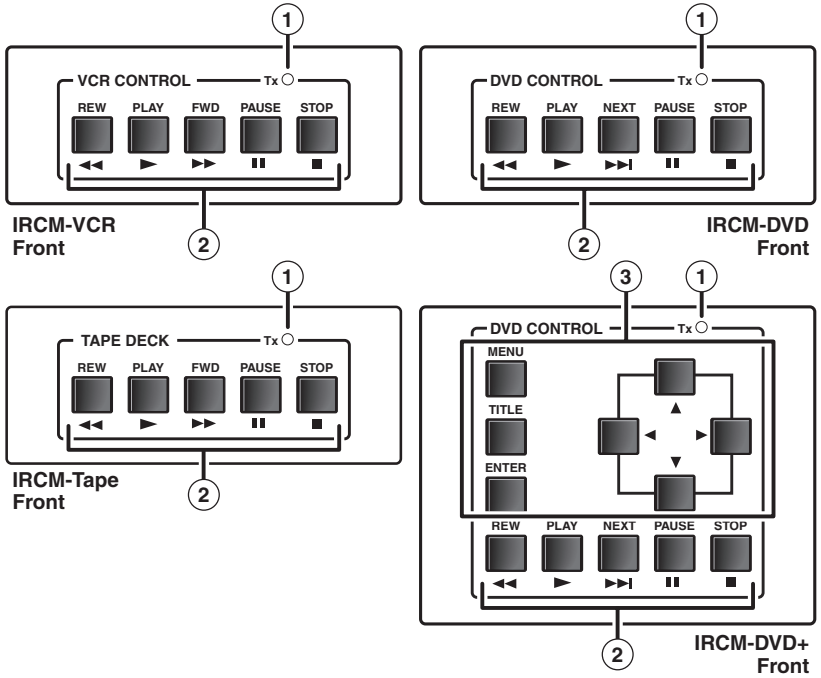


Figure 2-3 — IRCM modules front panel layout

ACM modules

④ **Min/Max LED** — This LED flashes whenever the MediaLink switcher's minimum or maximum levels are reached for any of the adjustments controlled by the ACM.

⑤ **Audio control buttons (for use with the MLS 506MA and MLS 506SA only)** — These buttons replicate the per-input audio Input Level adjustment and Mute features found in MLS switchers and in the MediaLink control software. The Mix Level buttons replicate the input mixing adjustment found on the front panel of the MLS 506MA and MLS 506SA and in the control software for those models.

Pressing the Mute button turns the audio mute on and off. The MLC's Volume Max/Min LED flashes while audio mute is on.

⑥ **Tone control buttons** — The ACM-Tone module works only when any MLS (switcher) is connected to the MLC (controller). The Tone Control buttons allow you to directly adjust the per-input bass and treble levels without having to use the MLS's LCD menu or the control software.

NOTE *The controls available on the ACM modules function only when a MediaLink switcher is connected to the MLC. These buttons do not need to be set up before use.*

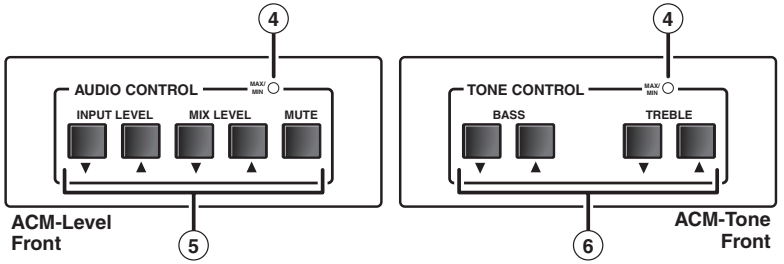


Figure 2-4 — ACM modules front panel layout

RCM modules

1. **Screen Position Up/Down buttons** — These buttons can be set up to toggle the screen to move up or down.
2. **Screen Position Stop button** — Press this button to stop the up/down motion of the screen.
3. **Lighting On/Off button** — This button acts like a light switch, toggling the room lights on or off when pressed. This button must be set up before it can control the lights.

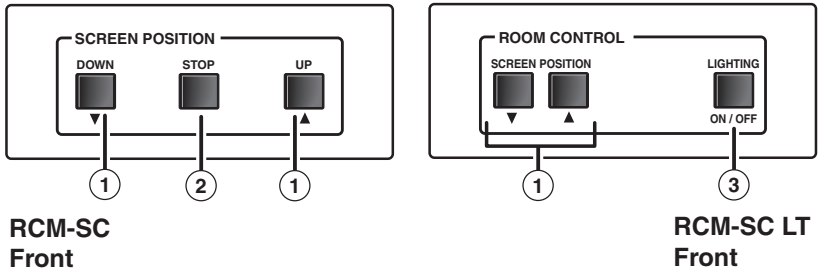


Figure 2-5 — RCM modules front panel layout

NOTE *Many different brands and models of low voltage controllers can be used with the RCM modules to control screen movement. An application example is shown below. Different models require different wiring.*

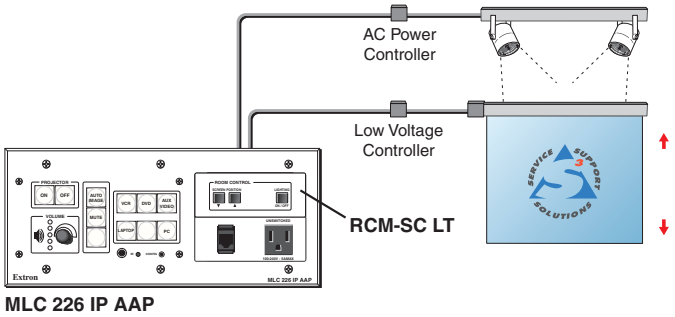


Figure 2-6 — Typical RCM application

NOTE *The diagrams included here are examples only. Your equipment may have different wiring requirements. Refer to the specific wiring instructions provided by the manufacturer of the screen or power controller that you are using.*

For screen controllers that require momentary closure between the up, down, and common terminals to stop the screen in its current position (e.g Da Lite and Draper), use the included diodes (1N4001 or equivalent) between the up and common (1 & 3) and down and common (2 & 3) terminals for reverse bias protection.

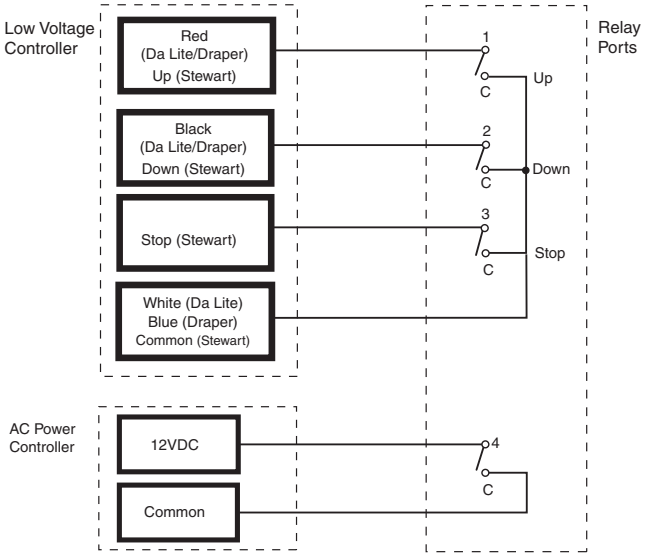


Figure 2-7 — MLC/System 5 IP relay wiring block diagram for an RCM-SC LT

CM modules

① **Tx (transmit) LED** — This LED lights whenever any control module button, with a control signal associated with it, is pressed.

② **Programmable buttons** — You can program these buttons to control any IR-controllable device, or you can have RS-232 codes or relays assigned to each button. Button labels for use with the CM-xBLB modules are available with your controller (MLC, System 5 IP, etc.). The metal on the CM-xBB modules can be engraved.

NOTE *The buttons on the CM-3BLB and CM-9BLB are back lit, and can visually indicate operation as the button is pressed and released and the stored command is executed. Configuration is required, via Windows-based Control Program or Global Configurator™ (GC2).*

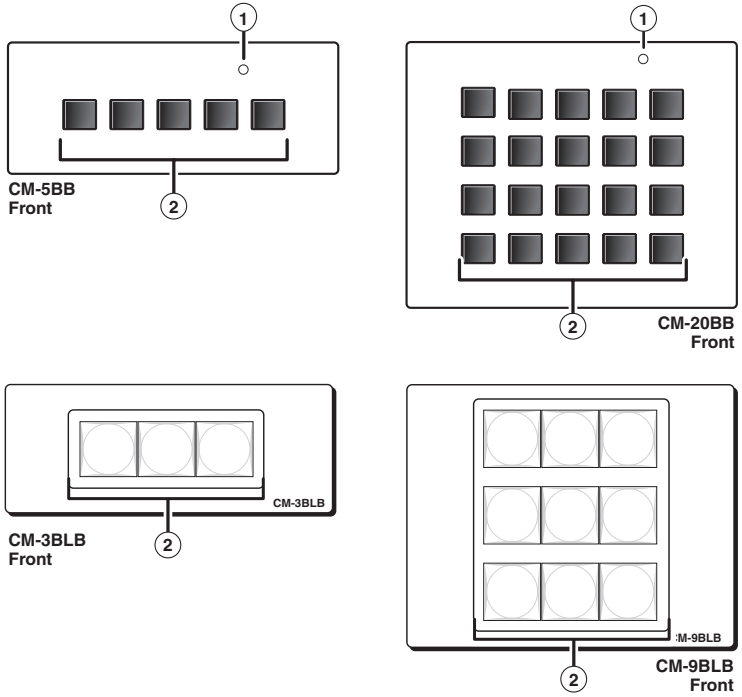


Figure 2-8 — CM-xBB and CM-x BLB modules front panel layouts

③ **Dial Pad and Function buttons** — These buttons replicate audio conference system controls (e.g. dial pad, on/dial, volume controls, etc.).

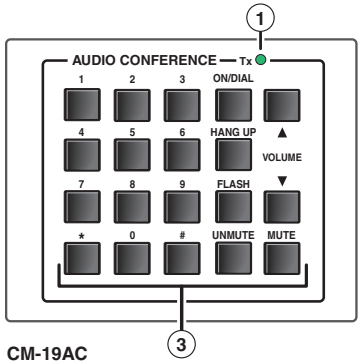


Figure 2-9 — CM-19AC module front panel layout

Setting Up the Buttons (IRCM, RCM, and CM Modules Only)

Before the control module can control a device such as a VCR or a DVD player, you must connect the module to an MLC or System 5 IP, and then configure each button. Refer to the MLC, System 5 IP, or Configuration software user's manuals.

NOTE *Once the MLC, or System 5 IP and control modules have been set up, pressing a button on the control module causes a command to be sent out, regardless of whether the display/projector's power is on or off. Also, it is **not** possible to **separately** control two or more identical devices out of a single IR port.*

Mounting the Control Module into an AAP Wall Plate or Device Faceplate

The control module and any adapter plates must be attached to a device faceplate or AAP wall plate and cabled before it is installed in a wall or furniture. The installation screws are built into its front panel, so no additional screws are needed.

1. Before attaching any cables, insert the module's screws into the holes in the device's faceplate or AAP wall plate. Secure the control module to the faceplate/wall plate with the provided captive washers and #4-40 nuts.
2. Follow the "Installation Overview" section of this chapter.

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Appendix A

Specifications, Part Numbers, and Accessories

Specifications

Included Parts

Accessories

Recommended Cables

Backlit Button Labels

Specifications

General

Power input requirements ..... 12 VDC, 0.08 A (CM-9BLB fully lit); 12 VDC, 0.026 A (CM-3BLB , fully lit), from an Extron MediaLink™ controller, System 5 IP, or external power supply

All other models..... 12 VDC, 0.020 A from an Extron MedialinkController (MLC), MediaLink Switcher (MLS) or System 5 IP Switcher.

Temperature/humidity..... Storage: -40 to +158 ° F (-40 to +70 ° C) / 10% to 90%, non condensing
Operating: +32 to +122 ° F (0 to +50 ° C) / 10% to 90%, non condensing

Rack mount..... Yes, with optional faceplate; and furniture/wall mountable with optional faceplates or AAP wall plates

Enclosure type ..... Metal

Enclosure dimensions

IRCM-VCR, IRCM-DVD, IRCM-Tape, ACM-Tone, ACM-Level, RCM-SC, RCM-SC LT, CM-5BB, CM-3BLB

Faceplate..... 1.4" H x 3.5" W x 0.1" D (3.5 cm H x 8.9 cm W x 0.3 cm D) (double space high AAP plate)

Boards ..... 1.3" H x 2.6" W x 0.9" D (3.3 cm H x 6.6 cm W x 2.3 cm D) (Depth excludes buttons. Allow at least 2.1" (5.3 cm) depth in the wall/furniture.)

IRCM-DVD+,CM-20BB, CM-9BLB, CM-19AC

Faceplate..... 2.8" H x 3.5" W x 0.1" D (7.1 cm H x 8.9 cm W x 0.3 cm D) (4 space high AAP plate)

Boards ..... 2.7" H x 2.6" W x 0.9" D (6.9 cm H x 6.6 cm W x 2.3 cm D) (Depth excludes buttons. Allow at least 2.1" (5.3 cm) depth in the wall/furniture.)

Product weight

IRCM-VCR, IRCM-DVD, IRCM-Tape, ACM-Tone, ACM-Level, RCM-SC, RCM-SC LT, CM-5BB, and CM-3BLB ..... 0.1 lb (<0.1 kg)

IRCM-DVD+, CM-20BB, CM-9BLB, and CM-19AC..... 0.2 lbs (0.1 kg)

Listings..... UL, CUL as components of the MLC 206

Compliances..... CE, FCC Class A, VCCI, AS/NZS, ICES as components of the MLC 206, MLC 226, or System 5 IP

MTBF..... 30,000 hours

Warranty..... 3 years parts and labor

NOTE *Specifications are subject to change without notice.*

Included Parts

These items are included with each of the control modules:

Included parts	Part number
3.5 mm, 5-pole captive screw connectors	10-319-10
IR Emitter (with IRCM modules only)	19-823-01
Inter-connect cable	27-431-01
Control Modules User's Manual	

Accessories

Check the Extron website (www.extron.com) for available accessories.

Recommended Cables

Cable Type	Part number
CTLP, (Plenum Comm link)	26-461-xx

Backlit Button Labels

Label Type	Part number
Backlit Text Button Labels	33-954-01
Backlit Icon Button Labels	33-955-01
Backlit International Button Labels	33-956-01

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FCC Class A Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Note: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance.

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

USA, Canada, South America, and Central America:
Extron Electronics
1001 East Ball Road
Anaheim, CA 92805, USA

Europe, Africa, and the Middle East:
Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands

Asia:
Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363

Japan:
Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.6383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.